Strainoptics

WORLD LEADER IN NON-DESTRUCTIVE OPTICAL STRESS INSPECTION & MEASUREMENT

Strainoptics Immersion Liquid n D=1.459 -1.570
Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous
Products Regulation (February 11, 2015).
Date of Issue: 02/09 /2024 Version: 1.0

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SECTION 1 : IDENTIFICATION

1.1. Product Identifier

Product Form : Mixture
Product Name : Strainoptics Immersion Liquid n D= 1.459 -1.570

1.2. Intended Use of the Product

(ABBR. C.I.U.) As an Optical Immersion Liquid at normal room pressure 101.32 hPa (760 mm Hg), temperature 7°C to 40°C (45°F t o
104°F) in a non misted / non airborne state in a room having normal air changes (2) / HR., in a trained and supervised laboratory /
industrial setting using standard Good Laboratory/Good Manufacturing procedures.
Note: Product normally sold in 4 oz (120cc), 16 oz (480cc), and gallon (3.84L) quantities . Used in single drop to a few cubic
centimeters per application. See requisitioner for specific quantities involved.

1.3. Name, Address, and Telephone of the Responsible Party

STRAINOPTICS-LITESENTRY-SOFTSOLUTION

2170 County Rd 42 W

Burnsville, MN 55337

Telephone: 215-661-0100 x 104
Website: www.strainoptics.com
email: stress@Strainoptics.com

SECTION 2 : HAZARDS IDENTIFICATION
2.1. Classification of the Substance or Mixture
GHS -US/CA Classification

Aspiration hazard Category 1 H304
Hazardous to the aquatic environment – Acute Hazard Category 1 H400
Hazardous to the aquatic environment – Chronic Hazard Category 4 H413

2.2. Label Elements
GHS -US/CA Labeling
Hazard Pictograms (GHS -US/CA) :

GHS08
GHS09
Signal Word (GHS -US/CA) : Danger
Hazard Statements (GHS -US/CA) : H304 - May be fatal if swallowed and enters airways.
H400 - Very toxic to aquatic life.
H413 - May cause long lasting harmful effects to aquatic life.
Precautionary Statements (GHS -US/CA) : P273 - Avoid release to the environment.
P301+P310 - IF SWALLOWED: Immediat ely call a POISON CENTER or doctor.
P331 - Do NOT induce vomiting.
P391 - Collect spillage.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

2.3. Other Hazards
Exposure may aggravate pre -existing eye, skin, or respiratory conditions.
2.4. Unknown Acute Toxicity (GHS -US/CA)
No additional information available

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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS
3.1. Substance
Not applicable
3.2. Mixture
Name Synonyms Product Identifier % * GHS Ingredient Classification

Hydrogenated terphenyls Terphenyl, hydrogenated /
Terphenyls, hydrogenated /
Hydrogenated terphenyl /
Therm -S 900 /
hexahydroterphenyl (CAS-No.) 61788 -32-7 30 – 60 Aquatic Acute 1, H400
Aquatic Chronic 4, H413
White mineral oil, petroleum White mineral oil / Oils, white
mineral, petroleum / White
mineral oil (petroleum) /
White oil / Paraffin oil / White
mineral oil, petroleum (A
highly refined petroleum
mineral oil consisting of a
complex combination of
hydrocarbons obtained from
the intensive treatment of a
petroleum fraction with
sulfuric acid and oleum, or by
hydrogenation, or by a
combination of hydrogenation
and acid treatment.
Additional washing and
treati ng steps may be
included in the processing
operation. It consists of
saturated hydrocarbons
having carbon numbers
predominantly in the range of
C15-50.) / Mineral oils,
petroleum / Mineral oil, white
/ Petroleum mineral oil /
Petroleum oil / Mineral oils /
Mineral oil / Petroleum
paraffinic oil / Distillates
(petroleum), hydrotreated
middle / mineral oil / liquid
paraffin (CAS-No.) 8042 -47-5 30 – 60 Asp. Tox. 1, H304
Full text of H -statements: see section 16
* The actual concentration of ingredient(s) is withheld as a trade secret in accordance with the Hazardous Products Regulations (HPR)
SOR/2015 -17 and 29 CFR 1910.1200. Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients.
Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4 : FIRST AID MEASURES

4.1. Description of First -aid Measures

General : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation : When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact : Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact : Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Obtain medical attention if irritation develops or persists.

Ingestion : Rinse mouth. Do NOT induce vomiting. Place affected person on their side. Immediately call a POISON CENTER or doctor/physician. If vomiting occurs have person lean forward. If vomiting occurs, keep head below waistline.

4.2. Most Important Symptoms and Effects Both Acu te and Delayed

General : May be fatal if swallowed and enters airways.

Inhalation : Prolonged exposure may cause irritation.

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Skin Contact : Prolonged exposure may cause skin irritation.

Eye Contact : May cause slight irritation to eyes.

Ingestion : Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

Chronic Symptoms : None known.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5 : FIRE -FIGHTING MEASURES

5.1. Extinguishing Media

5.2. Special Hazards Arising From the Substance or Mixture

5.3. Advice for Firefighters

Precautionary Measures Fire : Exercise caution when fighting any chemical fire.

Firefighting Instructions : Use water spray or fog for cooling exposed containers.

Protection During Firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous Combustion Products : Carbon oxides (CO, CO 2).
Other Information : Do not allow run -off from fire fighting to enter drains or water courses.

5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures : Spilled product presents a slipping hazard. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing
(vapor, mist, spray).

6.1.1. For Non -Emergency Personnel

Protective Equipment : Use appropriate personal protective equipment (PPE).
Emergency Procedures : Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment : Equip cleanup crew with proper protection.
Emergency Procedures : Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods,
protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permi t.
Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment : Contain any spills with dikes or absorbents to p revent migration and entry into sewers or streams.
Methods for Cleaning Up : Absorb and/or contain spill with inert material. Clean up spills immediately and dispose of waste safely.
Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7 : HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking
and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray.
Hygiene Measures : Handle in accordance with good industrial hygiene and safety

procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures : Comply with applicable regulations.

Storage Conditions : Keep c ontainer closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight,
extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

Incompatible Materials : Strong acids, strong bases, strong oxidizers. Suitable Extinguishing Media : Water spray, fog, carbon dioxide (CO 2), alcohol -resistant foam, or dry chemical.

Unsuitable Extinguishing Media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Fire Hazard : Not considered flammable but may burn at high temperatures.

Explosion Hazard : Product is not explosive.

Reactivity : Hazardous reactions will not occur under normal conditions.

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7.3. Specific End Use(s)

(ABBR. C.I.U.) As an Optical Immersion Liquid at normal room pressure 101.32 hPa (760 mm Hg), temperature 7°C to 40°C (45°F t o
104°F) in a non misted / non airborne state in a room having normal air changes (2) / HR., in a trained and supervised laboratory /
industrial setting using standard Good Laboratory/Good Manufacturing procedures.

Note: Product normally sold in 4 oz (120cc), 16 oz (480cc), and gallon (3.84L) quantities. Used in single drop to a few cub ic
centimeters per application. See requisitioner for specific quantities involved.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exp osure limits from the manufacturer, supplier,
importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provin cial
governments.

Hydrogenated terphenyls (61788 -32-7)
USA ACGIH ACGIH OEL TWA [ppm] 0.5 ppm (nonirradiated)
USA NIOSH NIOSH REL (TWA) 5 mg/m^3
USA NIOSH NIOSH REL TWA [ppm] 0.5 ppm
Alberta OEL TWA 4.9 mg/m^3
Alberta OEL TWA 0.5 ppm
British Columbia OEL TWA 0.5 ppm (nonirradiated)
Manitoba OEL TWA 0.5 ppm (non -irradiated)
New Brunswick OEL TWA 0.5 ppm (non -irradiated)
Newfoundland & Labrador OEL TWA 0.5 ppm (non -irradiated)
Nova Scotia OEL TWA 0.5 ppm (non -irradiated)
Nunavut OEL STEL 1.5 ppm (non -irradiated)
Nunavut OEL TWA 0.5 ppm (non -irradiated)
Northwest Territories OEL STEL 1.5 ppm (non -irradiated)
Northwest Territories OEL TWA 0.5 ppm (non -irradiated)
Ontario OEL TWA 0.5 ppm (as sum of components assayed by chromatographic procedure with reference to the bulk sample)
Prince Edward Island OEL TWA 0.5 ppm (non -irradiated)
Québec VEMP (OEL TWAEV) 4.9 mg/m^3
Québec VEMP (OEL TWAEV) 0.5 ppm
Saskatchewan OEL STEL 1.5 ppm (non -irradiated)
Saskatchewan OEL TWA 0.5 ppm (non -irradiated)
Yukon OEL STEL 5 mg/m^3
Yukon OEL STEL 0.5 ppm
Yukon OEL TWA 5 mg/m^3
Yukon OEL TWA 0.5 ppm

White mineral oil, petroleum (8042 -47-5)
USA ACGIH ACGIH OEL TWA 5 mg/m^3 (mist)

8.2. Exposure Controls
Appropriate Engineering Controls : Suitable eye/body wash equipment should be available in the vicinity of any potential exposure.
Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.
Personal Protective Equipment : Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.

Materials for Protective Clothing : Chemically resistant materials and fabrics.
Hand Protection : Wear protective gloves.
Eye and Face Protection : Chemical safety goggles.

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Skin and Body Protection : Wear suitable protective clothing.
Respiratory Protection : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respirat ory
protection.
Other Information : When using, do not eat, drink or smoke.
SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES
9.1. Information on Basic Physical and Chemical Properties
Physical State : Liquid
Appearance : Light yellow
Odor : Slight characteristic odor
Odor Threshold : No data available
pH : No data available
Evaporation Rate : Evaporation Rate, mineral oil=1: 1
Melting Point : No data available
Freezing Point : No data available
Boiling Point : > 230 (>) °C (446 °F)
Flash Point : > 120 °C [Open Cup] (248 °F)
Auto -ignition Temperature : No data available
Decomposition Temperature : No data available
Flammability (solid, gas) : Not applicable
Lower Flammable Limit : No data available
Upper Flammable Limit : No data available
Vapor Pressure : 1.5 mm Hg (199.984 Pascals)
Relative Vapor Density at 20°C : No data available
Relative Density : 0.88 – 1.03 (water =1)
Specific Gravity : No data available
Solubility : Water : NIL
Partition Coefficient: N -Octanol/Water : No data available
Viscosity : No data available

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity :

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability :

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions :

Hazardous polymerization will not occur.

10.4. Conditions to Avoid :

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials :

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products :

Thermal decomposition may produce: Carbon oxides (CO, CO 2).

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

LD50 and LC50 Data :

No additional information available

Skin Corrosion/Irritation : Not classified

Eye Damage/Irritation : Not classified

Respiratory or Skin Sensitization : Not classified

Germ Cell Mutagenicity : Not classified Acute Toxicity (Oral) : Not classified

Acute Toxicity (Dermal) : Not classified

Acute Toxicity (Inhalation) : Not classified

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Carcinogenicity : Not classified

Specific Target Organ Toxicity (Repeated Exposure) : Not classified

Reproductive Toxicity : Not classified

Specific Target Organ Toxicity (Single Exposure) : Not classified

Aspiration Hazard : May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation : Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact : Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact : May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion : Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

Chronic Symptoms: None known.

11.2. Information on Toxicological Effects - Ingredient(s)
LD50 and LC50 Data :
Hydrogenated terphenyls (61788 -32-7)
LD50 Oral Rat > 10000 mg/kg (Source: EPA_HPV)
LD50 Dermal Rabbit > 2000 mg/kg (Source: ECHA_API)
LC50 Inhalation Rat > 4.7 mg/l/4h
ATE US/CA (dermal) 6,800.00 mg/kg body weight

White mineral oil, petroleum (8042 -47-5)
LD50 Oral Rat > 5000 mg/kg (Source: IUCLID)

SECTION 12 : ECOLOGICAL INFORMATION
12.1. Toxicity
Ecology - General : Very toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

Hydrogenated terphenyls (61788 -32-7)
LC50 Fish 1 > 0.53 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
EC50 - Crustacea [1] > 1.34 mg/l
LC50 Fish 2 > 0.53 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: IUCLID)

White mineral oil, petroleum (8042 -47-5)
LC50 Fish 1 > 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

12.2. Persistence and Degradability
Strainoptics Immersion Liquid n D= 1.459 -1.570
Persistence and Degradability May cause long -term adverse effects in the environment.

12.3. Bioaccumulative Potential
Strainoptics Immersion Liquid n D =1.459 -1.570
Bioaccumulative Potential Not established.

White mineral oil, petroleum (8042 -47-5)
Partition coefficient n -octanol/water
(Log Pow) > 6

12.4. Mobility in Soil
No additional information available
12.5. Other Adverse Effects
Other Information : Avoid release to the environment.

SECTION 13 : DISPOSAL CONSIDERATIONS
13.1. Waste treatment methods
Sewage Disposal Recommendations : Do not dispose of waste into sewer. Do not empty into drains.
Waste Disposal Recommendations : Dispose of contents/container in accordance with local, regional, national, territorial, provincial,
and international regulations.
Ecology - Waste Materials : Avoid release to the environment. This material is hazardous to the aquatic envi ronment. Keep out of
sewers and waterways.
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SECTION 14 : TRANSPORT INFORMATION
The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was author ed,
and can vary based on a number of variables tha t may or may not have been known at the time the SDS was issued.
Note: Classification as UN3082 only required for inner packagings greater than 5 Litres per package, or total package s exceeding 30 kg
in weight. Smaller packages are unregulated.
14.1. In Accordance with DOT
Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS : HYDROGENATED
TERPHENYLS)
Hazard Class : 9
Identification Number : UN3082
Label Codes : 9
Packing Group : III

Marine Pollutant : Marine pollutant
ERG Number : 171
14.2. In Accordance with IMDG
Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS : HYDROGENATED
TERPHENYLS)
Hazard Class : 9
Identification Number : UN3082
Label Codes : 9

Packing Group : III
EmS -No. (Fire) : F-A
EmS -No. (Spillage) : S-F
Marine pollutant : Marine pollutant
14.3. In Accordance with IATA
Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS : HYDROGENATED
TERPHENYLS)
Hazard Class : 9
Identification Number : UN3082
Label Codes : 9
Packing Group : III
ERG Code (IATA) : 9L
14.4. In Accordance with TDG
Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS : HYDROGENATED
TERPHENYLS)
Hazard Class : 9
Identification Number : UN3082
Label Codes : 9
Packing Group : III
Marine Pollutant (TDG) : Marine pollutant
SECTION 15 : REGULATORY INFORMATION
15.1. US Federal Regulations
Strainoptics Immersion Liquid n D= 1.459 -1.570
SARA Section 311/312 Hazard Classes Health hazard - Aspiration hazard

Hydrogenated terphenyls (61788 -32-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

White mineral oil, petroleum (8042 -47-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

15.2. US State Regulations

Hydrogenated terphenyls (61788 -32-7)

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U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Massachusetts - Right To Know List

15.3. Canadian Regulations

Hydrogenated terphenyls (61788 -32-7)
Listed on the Canadian DSL (Domestic Substances List)

White mineral oil, petroleum (8042 -47-5)
Listed on the Canadian DSL (Domestic Substances List)

SECTION 16 : OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest
Revision : 02/09 /2024
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA
Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015 -17.
GHS Full Text Phrases :

------ H304 May be fatal if swallowed and enters airways
------ H400 Very toxic to aquatic life
------ H413 May cause long lasting harmful effects to aquatic life

Glossary of Data Source Abbreviations
ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)
AU_WES: Australia WES
CHEMVIEW: ChemView (U.S. Environmental Protection Agency)
EC_RAR: European Commission Renewal Assessment Report
EC_SCOEL: European Commission Scientific Committee on Occupational Exposure L imits
ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports
ECHA_API: European Chemicals Agency API
ECHA_RAC: ECHA Committee for Risk Assessment
EFSA: European Food Safety Authority
EPA: U.S. Environmental Protection Agency

EPA_ AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)
EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)
EPA_HPV: High Production Volume Chemic als (U.S. Environmental Protection Agency)
EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)
EU_CLH: European Union Harmonised Classification and Labelling Proposal
EU_RAR: European Union Ri sk Assessment Report FOOD_JOURN: Food Research Journal (1956)
IARC: The International Agency for Research on Cancer
IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles
IUCLID: International Uniform Chemical Information Database
JAPAN_GHS: Japan GHS Basis for Classification Data
JP_J-CHECK: Japan J -Check
KR_NIER: South Korea National Institute of Environmental Research Evaluations
NICNAS: Australia National Industrial Chemicals Notifica tion and Assessment Scheme
NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)
NLM_CIP: National Library of Medicine ChemID plus database
NLM_HSDB: National Library of Medicine Hazardous Substance Data Bank
NLM_PUBMED: National Library of Medicine PubMed database
NTP: National Toxicology Program
NZ_CCID: New Zealand Chemical Classification and Information Database
OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)
OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co - operation and Development)
WHO: World Health Organization

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and
environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. T he
information supplied is based on data available to us and is believed to be correct. Howe ver, no guarantee or warranty of any kind
expressed or implied, is made with respect to this information presented and Strainoptics Laboratories assumes no responsibility for the
result of the use of this product. This information is furnished upon the conditi on that the

persons responsible for its use shall make
their own determination of the suitability of the material for their particular purpose.
Please note that we consider the En glish version
to be the authoritative version for compliance and regulatory purposes.

NA GHS SDS 2015 (Can, US)